

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date December 28, 2016	EPA Reg. No./File Symbol 91234-xx	Page 1 of 37
Applicant's / Registrant's Name & Address Extremis, LLC 501 Cascade Point Lane, Suite 102 Cary, NC 27513		Product E117.01

Ingredient **Propargite**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	50132201	Extremis, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	50132201	Extremis, LLC	OWN	
830.1620	Description of Production Process				Not required ¹
830.1650	Description of Formulation Process	50132201	Extremis, LLC	OWN	
830.1670	Discussion of Formation of Impurities	50132201	Extremis, LLC	OWN	
830.1700	Preliminary Analysis				Not required ²
830.1750	Certified Limits	50132201	Extremis, LLC	OWN	
830.1800	Enforcement Analytical Method	50132202	Extremis, LLC	PER	
830.6302	Color	50132203	Extremis, LLC	PER	
830.6303	Physical State	50132203	Extremis, LLC	PER	
830.6304	Odor	50132203	Extremis, LLC	PER	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	50132204	Extremis, LLC	OWN	Not required ³
830.6314	Oxidation/Reduction: Chemical Incompatibility	50132203	Extremis, LLC	PER	

Signature 	Name and Title Michael Kellogg, Consultant	Date 12/28/2016
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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6315	Flammability	50132203	Extremis, LLC	PER	
830.6316	Explosibility	50132204	Extremis, LLC	OWN	Not required ⁴
830.6317	Storage Stability	50132204	Extremis, LLC	OWN	PRN 92-5 ⁵
830.6319	Miscibility	50132204	Extremis, LLC	OWN	Not required ⁶
830.6320	Corrosion Characteristics	50132204	Extremis, LLC	OWN	See endnote ⁵
830.6321	Dielectric Breakdown Voltage	50132204	Extremis, LLC	OWN	Not required ⁷
830.7000	pH	50132203	Extremis, LLC	PER	
830.7050	UV/Visible Absorption	50132204	Extremis, LLC	OWN	Not required ³
830.7100	Viscosity	50132203	Extremis, LLC	PER	
830.7200	Melting Point/Melting Range	50132204	Extremis, LLC	OWN	Not required ³
830.7220	Boiling Point/Boiling Range	50132204	Extremis, LLC	OWN	Not required ³
830.7300	Density/Relative Density/Bulk Density	50132203	Extremis, LLC	PER	
830.7370	Dissociation Constants in Water	50132204	Extremis, LLC	OWN	Not required ³

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Ingredient **Propargite**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7520	Particle size, fiber length, diameter distribution	50132204	Extremis, LLC	OWN	Not required ⁸
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50132204	Extremis, LLC	OWN	Not required ³
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method	50132204	Extremis, LLC	OWN	See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	50132204	Extremis, LLC	OWN	See 830.7550
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	50132204	Extremis, LLC	OWN	Not required ³
830.7860	Water Solubility, Generator Column Method	50132204	Extremis, LLC	OWN	Not required ³
830.7950	Vapor Pressure	50132204	Extremis, LLC	OWN	Not required ³
870.1100 (81-1)	Acute Oral Toxicity: Rat	50132205	Extremis, LLC	PER	
870.1200 (81-2)	Acute Dermal Toxicity: Rat	50132206	Extremis, LLC	PER	
870.1300 (81-3)	Acute Inhalation Toxicity: Rat	50132207	Extremis, LLC	PER	
870.2400 (81-4)	Primary Eye Irritation: Rabbit	50132208	Extremis, LLC	PER	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2500 (81-5)	Primary Dermal Irritation	50132209	Extremis, LLC	PER	
870.2600 (81-6)	Dermal Sensitization	50132210	Extremis, LLC	PER	
Generic Data					
850.2100	Acute Avian Oral Toxicity	00082632		OLD GAP	See endnote ⁹
850.2150	Avian Feeding Study			GAP	See endnote ¹⁰
850.2200	Acute Avian Dietary Toxicity	00052454 00076407 00112367 00113471		OLD OLD OLD OLD	See endnote ¹¹
850.2400	Wild Mammal Toxicity				Not required
850.2300	Avian Reproductive Toxicity	41041702 41041701		OLD OLD	See endnote ¹²
850.2500	Simulated or Actual Field Testing				Not required

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1075	Freshwater Fish Toxicity	41458301		OLD	See endnote ¹³
		00066498		OLD	
		43759001		OLD	
		00043552		OLD	
		00003059		OLD	
		00076405		OLD	
		00112368		OLD	
		00029174		OLD	
		00009733		OLD	
		00066498		OLD	
		48557302	Macdermid Ag Solutions, Inc.	PAY	
850.1010	Freshwater Invertebrate Toxicity	43759002		OLD	See endnote ¹⁴
		00068752		OLD	
		00112402		OLD	
		48557303	Macdermid Ag Solutions, Inc.	PAY	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	40431601 41449201 40514001		OLD OLD OLD	See endnote ¹⁵
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	00142594		OLD	See endnote ¹⁶
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	46335701	Macdermid Ag Solutions, Inc.	PAY	See endnote ¹⁷
850.1400	Fish Early Life Stage (Freshwater)	00126739		OLD	See endnote ¹⁸
850.1400	Fish Early Life Stage (Saltwater)				Waiver ¹⁹
850.1500	Life Cycle Fish			GAP	See endnote ²⁰
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	40494001 40916601		OLD OLD	See endnote ²¹
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
SS-1208	Chronic Sediment – Hyalella Azteca			GAP	See endnote ²²
SS-1209	Chronic Sediment – Chironomus dilutus	48557301	Macdermid Ag Solutions, Inc.	PAY	See endnote ²³
SS-1210	Chronic Sediment – Leptocheirus plumulosus			GAP	See endnote ²⁴

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Ingredient Propargite

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.3020	Honey Bee Acute Contact Toxicity	43185001		OLD	See endnote ²⁵
850.3030	Honeybee Toxicity of Residues on Foliage	00060628 00091656 00132711		OLD OLD OLD	See endnote ²⁶
850.3040	Field Testing for Pollinators			GAP	See endnote ²⁷
N/A	Honey Bee Acute Larval Toxicity	00074486		OLD	See endnote ²⁸
SS-1311	Honey Bee Adult Oral Toxicity	49454501	Macdermid Ag Solutions, Inc.	PAY	See endnote ²⁹
SS-1312	Honey Bee Larvae Acute Oral Toxicity			GAP	See endnote ³⁰
SS-1313	Honey Bee Adult Chronic Oral Toxicity			GAP	See endnote ³¹
SS-1314	Honey Bee Larvae Chronic Oral Toxicity			GAP	See endnote ³²
SS-1315	Semi-Field Testing for Pollinators			GAP	See endnote ³³
SS-1316	Field Trial of Residues in Pollen and Nectar			GAP	See endnote ³⁴
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat				Not required ³⁵

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Ingredient Propargite

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3100	90-Day Oral: Rodent	41307702 42196401 42196402		OLD OLD OLD	
870.3150	90-Day Oral: Non-Rodent	00145337 41751401 42196402		OLD OLD OLD	
870.3200	21/28-Day Dermal Toxicity	40263201 41284101		OLD OLD	
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	00112348		OLD	
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity				Not required ³⁶
870.4100	Chronic Oral Rodent	41750901		OLD	See endnote ³⁷
870.4200	Carcinogenicity	00031643 00061339 00130942 41750901		OLD OLD OLD OLD	See endnote ³⁸

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3700	Reproduction/Developmental Toxicity Screening Test	41346501 41336301		OLD OLD	See endnote ³⁹
870.3800	2-Generation Reproduction: Rat	41352401		OLD	See endnote ⁴⁰
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	00066497 43764701		OLD OLD	
870.5300, 830.5375	<i>In vitro</i> Mammalian Cell Assay	40384601 42815201 42885001		OLD OLD OLD	
870.5385, 870.5395, 870.5450, 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	40384602 40384603 43502202 43764702		OLD OLD OLD OLD	

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Extremis, LLC
501 Cascade Point Lane, Suite 102
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Product

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Ingredient Propargite

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7485	Metabolism and Pharmacokinetics	40862801		OLD	
		40862802		OLD	
		40862803		OLD	
		40862804		OLD	
		40982506		OLD	
		41168501		OLD	
		41386301		OLD	
		41386302		OLD	
		41386303		OLD	
		41386304		OLD	
		41712101		OLD	
		43502201		OLD	
		44920901		OLD	
		45141901		OLD	
870.7200	Companion Animal Safety				Not required

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Ingredient Propargite

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7600	Dermal Penetration	40982503		OLD	
		40982504		OLD	
		40982505		OLD	
		41457802		OLD	
		41457803		OLD	
		41457804		OLD	
		41457805		OLD	
870.7800	Immunotoxicity				Not required ⁴¹
875.1100	Dermal Exposure – Outdoor	41848605 42099702 Multiple MRIDs	Agricultural Handlers Exposure Task Force	OLD OLD OWN	See endnote ⁴²
875.1200	Dermal Exposure – Indoor				Not required

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1300	Inhalation Exposure – Outdoor	41848605 42099702 Multiple MRIDs	Agricultural Handlers Exposure Task Force	OLD OLD OWN	See endnote ⁴²
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handlers Exposure Task Force	OWN	See endnote ⁴²
875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure Task Force	OWN	See endnote ⁴²
875.1700	Product Use Information		Agricultural Handlers Exposure Task Force	OWN	See endnote ⁴²

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Ingredient **Propargite**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	40909001		OLD	
		40909002		OLD	
		40909003		OLD	
		40909004		OLD	
		40909005		OLD	
		40909006		OLD	
		40909007		OLD	
		40952101		OLD	
		40975302		OLD	
		40975305		OLD	
		40975306		OLD	
		40975307		OLD	
		40975309		OLD	
		40975311		OLD	
		41399601		OLD	
		41442601		OLD	
		41457806		OLD	
		41680302		OLD	
Signature		41848603	Name and Title	OLD	Date
		42011801	Michael Kellogg, Consultant	OLD	12/28/2016
		42689102		OLD	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2200	Soil Residue Dissipation		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³
875.2300	Indoor Surface Residue Dissipation				Not required
875.2400	Dermal Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³
875.2500	Inhalation Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³
875.2600	Biological Monitoring		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³
875.2700	Product Use Information				Not required
875.2800	Descriptions of Human Activity		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³

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Ingredient **Propargite**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2900	Data Reporting and Calculations		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³
875.3000	Nondietary Ingestion Exposure		Agricultural Re-Entry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴³
201-1	Droplet Size Spectrum		Spray Drift Task Force	OWN	See endnote ⁴⁴
202-1	Droplet Size Spectrum		Spray Drift Task Force	OWN	See endnote ⁴⁴
890.1100	Amphibian Metamorphosis	48618901	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁴⁵
890.1150	Androgen Receptor Binding (Rat Prostate)	48618902	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁴⁶
890.1200	Aromatase (Human Recombinant)	48618903	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁴⁷
890.1250	Estrogen Receptor Binding	48618904	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁴⁸
890.1300	Estrogen Receptor Transcriptional Activation Assay	48618905	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁴⁹
890.1350	Fish Short-Term Reproduction	48618906	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁵⁰
890.1400	Hershberger (Rat)	48618907	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁵¹

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
890.1450	Female Pubertal (Rat)	48618908	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁵²
890.1500	Male Pubertal (Rat)	48618908	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁵³
890.1550	Steroidogenesis	48618909	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁵⁴
890.1600	Uterotrophic (Rat)	48618910	Macdermid Ag. Solutions, Inc.	PAY	See endnote ⁵⁵
850.4100	Tier 1: Seedling Emergence	43885801		OLD GAP	See endnote ⁵⁶
850.4150	Tier 1: Vegetative Vigor	43885802		OLD GAP	See endnote ⁵⁷
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	43885803 43885804 43885805 43885806 43885807		OLD OLD OLD OLD OLD GAP	See endnote ⁵⁸
850.4550	Cyanobacteria Toxicity	43885803		OLD	See endnote ⁵⁹

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4100	Tier 2: Seedling Emergence	43885801		OLD GAP	See endnote ⁵⁶
850.4150	Tier 2: Vegetative Vigor	43885802		OLD GAP	See endnote ⁵⁷
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	43885803 43885804 43885805 43885806 43885807		OLD OLD OLD OLD OLD GAP	See endnote ⁵⁸
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	40358402		OLD	See endnote ⁶⁰
835.2240	Photodegradation in Water	40358401		OLD	See endnote ⁶¹
835.2410	Photodegradation in Soil	40358401		OLD	See endnote ⁶²

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2370	Photodegradation in Air				Waived ⁶³
835.4100	Aerobic Soil Metabolism	43851402		OLD	See endnote ⁶⁴
835.4200	Anaerobic Soil Metabolism	00068368 41003602		OLD OLD	See endnote ⁶⁵
835.4300	Aerobic Aquatic Metabolism	42688801		OLD	See endnote ⁶⁶
835.4400	Anaerobic Aquatic Metabolism	43139401		OLD	See endnote ⁶⁷
835.1230	Leaching/Adsorption/Desorption	00112414 42908402 43697101 42908401		OLD OLD OLD OLD	See endnote ⁶⁸
835.1410	Volatility – Laboratory				Waived ⁶⁹
835.8100	Volatility – Field				Waived ⁷⁰

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6100	Soil Field Dissipation Study	40969501 41307301 41325901 41432501 41731501 41966001		OLD OLD OLD OLD OLD OLD	See endnote ⁷¹
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
835.7200	Surface Drinking Water Monitoring Study	47314101	Macdermid Ag Solutions, Inc.	PAY	See endnote ⁷²
850.6100	Environmental Chemistry Methods	44968601		OLD GAP	See endnote ⁷³

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	00025749		OLD	See endnote ⁷⁴
		00029103		OLD	
		00130618		OLD	
		41006002		OLD	
		41570701		OLD	
		43738201		OLD	
		41006001		OLD	
		41117001		OLD	
		42943601		OLD	
		44730701		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Livestock	41210401		OLD	
		41570702		OLD	
		41587101		OLD	
		42578601		OLD	
		42578602		OLD	
		43941801		OLD	
		41325902		OLD	
860.1850	Confined Rotational Crops	41736601		OLD	See endnote ⁷⁵
		43345501		OLD	
		43799001		OLD	
		44013801		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Methods	44100001		OLD	
		44100002		OLD	
		42258002		OLD	
		42258004		OLD	
		42644402		OLD	
		42861401		OLD	
		42861402		OLD	
		43197803		OLD	
		43489801		OLD	
		43748701		OLD	
		43748702		OLD	
860.1360	Multiresidue Method	46197101	Macdermid Ag Solutions, Inc.	PAY	See endnote ⁷⁶

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380	Storage Stability	43197802	Macdermid Ag Solutions, Inc.	OLD	
		43197804		OLD	
		41641701		OLD	
		41848601		OLD	
		41848607		OLD	
		41848608		OLD	
		41966001		OLD	
		42720602		OLD	
		42806704		OLD	
		42861403		OLD	
		42861404		OLD	
		42861406		OLD	
		43133503		OLD	
		43229401		OLD	
		43339101		OLD	
		47952901		PAY	
		47952902		PAY	
		47952903		PAY	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: alfalfa grown for seed	00112361 00112394 40696203		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: almonds	00080225 44698601 40615503 00112342 00112355		OLD OLD OLD OLD OLD	See endnote ⁷⁷
860.1500	Magnitude of the Residue in Plants: beans (dry)	00064067 41848602		OLD OLD	See endnote ⁷⁸
860.1500	Magnitude of the Residue in Plants: clover grown for seed	00112361		OLD	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: citrus	00069174		OLD	See endnote ⁷⁹
		00112347		OLD	
		00112360		OLD	
		00112361		OLD	
		00112397		OLD	
		00112408		OLD	
		40615506		OLD	
		40615507		OLD	
		40615508		OLD	
		43695901		OLD	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: corn (field, pop, sweet)	00043251 00044638 00079227 00086708 00112361 00112401 42005701 44285701 44285702 40615512 41197101 41389001		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	See endnote ⁸⁰
860.1500	Magnitude of the Residue in Plants: cotton	00112363 00112391 40615515 42766109 46729801	Macdermid Ag Solutions, Inc.	OLD OLD OLD OLD PAY	

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Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: grapes	00006678 00048326 00112345 00112405 40615501		OLD OLD OLD OLD OLD	See endnote ⁸¹
860.1500	Magnitude of the Residue in Plants: hops	00112355 00112358 00112398 41848601 41942401		OLD OLD OLD OLD OLD	See endnote ⁸²
860.1500	Magnitude of the Residue in Plants: mint	00112361 00138428		OLD OLD	See endnote ⁸³
860.1500	Magnitude of the Residue in Plants: peanuts	00038650 00044291 00047994		OLD OLD OLD	See endnote ⁸⁴

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: potato	00112347 00112361 42223502		OLD OLD OLD	See endnote ⁸⁵
860.1500	Magnitude of the Residue in Plants: sorghum	00038032 00038036 42644401 43847901 40615513 41831601		OLD OLD OLD OLD OLD OLD	See endnote ⁸⁶
860.1500	Magnitude of the Residue in Plants: walnuts	00112339 00112345 00138427		OLD OLD OLD	See endnote ⁸⁷
860.1520	Magnitude of the Residue in Processed Food or Feed: alfalfa grown for seed	00112361 00112394 40696203		OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus	40615506		OLD	See endnote ⁸⁸

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	43802201		OLD	See endnote ⁸⁹
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	00030794 00094938 00112363 00131893 40615515 46729801	Macdermid Ag Solutions, Inc.	OLD OLD OLD OLD OLD PAY	See endnote ⁹⁰
860.1520	Magnitude of the Residue in Processed Food or Feed: grapes	00006678 00112355 43260801 44861301 40615501		OLD OLD OLD OLD OLD	See endnote ⁹¹
860.1520	Magnitude of the Residue in Processed Food or Feed: mint	00112361 00138428		OLD OLD	See endnote ⁹²
860.1520	Magnitude of the Residue in Processed Food or Feed: peanuts	00038650 43804001		OLD OLD	See endnote ⁹³

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: potato	00112347 00112361 42223502		OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: sorghum	40615513		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	00112360 41862302 41862303 41862304 42011901 43197805 43261501		OLD OLD OLD OLD OLD OLD OLD	See endnote ⁹⁴
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required

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Applicant's / Registrant's Name & Address Extremis, LLC 501 Cascade Point Lane, Suite 102 Cary, NC 27513		Product E117.01			
Ingredient Propargite					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops	42846001 42846002 43345501		OLD OLD OLD	See endnote ⁹⁵

Signature 	Name and Title Michael Kellogg, Consultant	Date 12/28/2016
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Endnotes for Data Matrix for E117.01

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- ¹ **830.1620** - Per OPPTS 830.1000, these data are not required for the registration of an end-use product. See 830.1650 for formulation process information.
- ² **830.1700** – This product does not consist solely of the technical grade active ingredient (TGA) and is not produced by an integrated system, therefore, per OPPTS 830.1700, these data are not required.
- ³ **830.6313, 830.7050, 830.7200, 830.7220, 830.7370, 830.7550, 830.7560, 830.7570, 830.7840, 830.7860 and 830.7950** – Per OPPTS 830.1000, these data are not required for the registration of an end-use product.
- ⁴ **830.6316** – This product does not have explosive characteristics; therefore these data are not required. Please refer to the Confidential Statement of Formula for additional information on the composition of E117.01.
- ⁵ **830.6317, 830.6320 – Storage Stability and Corrosion Characteristics:** Storage stability and corrosion characteristic studies to satisfy guidelines 830.6317 and 830.6320 are being conducted. Per PR Notice 92-5, storage stability data are not required to be submitted unless specifically requested by the Agency. OPPTS 830.6317 and 830.6320 guidelines allow the corrosion characteristics study and storage stability study to be conducted simultaneously. Extremis, LLC will submit these data upon completion. Extremis, LLC requests that a conditional registration for E117.01 be granted on the submission of these data.
- ⁶ **830.6319** – E117.01 is an emulsifiable concentrate however, the proposed labeling recommends dilution with water, not oil; therefore, these data are not required.
- ⁷ **830.6321** – This product is not proposed for use around electrical equipment. Therefore, these data are not applicable nor are these data required.
- ⁸ **830.7520** - These data are not required for E117.01 because it is not water insoluble and is not a fibrous material.
- ⁹ **850.2100** – The study cited is acceptable and satisfies the data requirement as per the May 5, 2014 Registration Review: Problem Formulation for Propargite (DP Barcode 416479) (Problem Formulation). The Problem Formulation also identified passerine data as a data gap and it appears that these data have not yet been submitted. Extremis, LLC will offer to cost share for the development of these data after its registration is granted.
- ¹⁰ **850.2150** – This data requirement was identified as a data gap in the June 25, 2008 Amended Reregistration Eligibility Decision document (Propargite RED). According to the Problem Formulation, no data have been submitted and it is still considered a data gap.
- ¹¹ **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹² **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹³ **850.1075** – The studies cited are classified as acceptable or supplemental and satisfy the data requirement as per the Problem Formulation. Note: voluntarily submitted data that are “in review” were not cited. The Problem Formulation and Nov. 2015 Registration Review DCI identified rainbow trout data on the degradate as a data gap. However, it appears this study was submitted under 48557302 and is cited.
- ¹⁴ **850.1010** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation. Note: voluntarily submitted data that are “in review” were not cited. The Problem Formulation and Nov. 2015 Registration Review DCI identified freshwater invertebrate data on the degradate as a data gap. However, it appears this study was submitted under 48557303 and is cited.

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- ¹⁵ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are classified as acceptable and satisfy the data requirement as per the Problem Formulation. No acute mysid data are available, but these data are not required as per the Problem Formulation.
- ¹⁶ **850.1300** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ¹⁷ **850.1350** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ¹⁸ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ¹⁹ **850.1400** – The Problem Formulation identified this data requirement as a data gap, but these data were not included in the Nov. 2015 Registration Review DCI. Therefore, Extremis believes the chronic toxicity to estuarine/marine fish will be determined with an acute-to-chronic ratio and no data need to be submitted and requests a waiver for the submission or citation of these data.
- ²⁰ **850.1500** – This data requirement was identified as a data gap in the Propargite RED. According to the Problem Formulation, no data have been submitted and it is still considered a data gap.
- ²¹ **850.1710, 850.1730, 850.1850** – The studies cited are classified as acceptable and satisfy the data requirement as per the Problem Formulation.
- ²² **SS-1208** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ²³ **SS-1209** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI. However, it appears that the study cited may satisfy the outstanding data requirement.
- ²⁴ **SS-1210** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ²⁵ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁶ **850.3030** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ²⁷ **850.3040** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ²⁸ **N/A** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁹ **SS-1311** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI. However, it appears that the study cited may satisfy the outstanding data requirement.
- ³⁰ **SS-1312** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ³¹ **SS-1313** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ³² **SS-1314** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ³³ **SS-1315** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.

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- ³⁴ **SS-1316** – EPA identified this data requirement as a data gap in the Problem Formulation and requested the submission of these data in the Nov. 2015 Registration Review DCI.
- ³⁵ **870.6200** – These data have not been submitted nor are required as per the Scoping Document.
- ³⁶ **870.6200** – These data have not been submitted nor are required as per the Scoping Document.
- ³⁷ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁸ **870.4200** – MRID 41750901 is acceptable and satisfies the data requirement as per the Scoping Document. A mouse oncogenicity study is also cited.
- ³⁹ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ⁴⁰ **870.3800** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ⁴¹ **870.7800** – These data have not been submitted nor are required as per the Scoping Document.
- ⁴² **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – Extremis, LLC is a member of the Agricultural Handlers Exposure Task Force (AHETF). A letter of authorization for reliance on AHETF data can be provided upon request.
- ⁴³ **875.2200, 875.2400, 875.2500, 875.2600, 875.2800, 875.2900, 875.3000** – Extremis, LLC is a member of Agricultural Re-Entry Task Force (ARTF) and Outdoor Residential Exposure Task Force (ORETF). A letter of authorization for reliance on ARTF and ORETF data can be provided upon request.
- ⁴⁴ **201-1, 202-1** – Extremis, LLC is a member of the Spray Drift Task Force (SDTF). A letter of authorization for reliance on SDTF data can be provided upon request.
- ⁴⁵ **890.1100** – The study cited is acceptable and satisfies the data requirement as per the June 29, 2016 Propargite: Data Evaluation Records (DERs) for EDSP Tier 1 Assays (DP Barcode D39477) (EDSP DERs).
- ⁴⁶ **890.1150** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴⁷ **890.1200** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴⁸ **890.1250** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴⁹ **890.1300** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁰ **890.1350** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵¹ **890.1400** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵² **890.1450** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵³ **890.1500** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

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- ⁵⁴ **890.1550** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁵ **890.1600** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁶ **850.4100** – The study cited is classified as supplemental and only partially satisfies the data requirement as per the Problem Formulation. Additional data were required in the Nov. 2015 Registration Review DCI.
- ⁵⁷ **850.4150** – The study cited is classified as supplemental and only partially satisfies the data requirement as per the Problem Formulation. Additional data were required in the Nov. 2015 Registration Review DCI.
- ⁵⁸ **850.4400, 850.4500** – The studies cited are classified as acceptable and satisfy the data requirement as per the Problem Formulation, but additional data on the degradate were required in the Nov. 2015 Registration Review DCI.
- ⁵⁹ **850.4550** – The study cited is classified as acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁶⁰ **835.2120** – The study cited is classified as acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁶¹ **835.2240** – The study cited is classified as acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁶² **835.2410** – The study cited is classified as acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁶³ **835.2370** – This data requirement is waived as per the Problem Formulation.
- ⁶⁴ **835.4100** – The study cited is classified as acceptable and fully satisfies the data requirement as per the Problem Formulation. Data “in review” or classified as unacceptable are not cited, but the Problem Formulation states that 43851402 is sufficient to satisfy the data requirement.
- ⁶⁵ **835.4200** – The studies cited are acceptable or supplemental and satisfy the data requirement as per the Problem Formulation.
- ⁶⁶ **835.4300** – The study cited is classified as acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁶⁷ **835.4400** – The study cited is classified as acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁶⁸ **835.1230** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation and the Oct. 23, 2014 Response to Public Comments on the Propargite Registration Review Problem Formulation (DP Barcode 423024) (EFED Response to Comments). The EFED Response to Comments confirms that MRID 43697101 upgrades MRID 42908402 to acceptable. Degradate data are also cited.
- ⁶⁹ **835.1410** – This data requirement is waived as per the Problem Formulation.
- ⁷⁰ **835.8100** – This data requirement is waived as per the Problem Formulation.
- ⁷¹ **835.6100** – The studies cited are acceptable or supplemental and satisfy the data requirement as per the Problem Formulation. The Problem Formulation notes that environmental chemistry methods are required (see 850.6100).
- ⁷² **835.7200** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.

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- ⁷³ **850.6100** – The study cited is “in review” as per the Problem Formulation, but an ILV for soil and an ECM and ILV for water are required.
- ⁷⁴ **860.1300** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁷⁵ **860.1850** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁷⁶ **860.1360** – The study cited appears to have been submitted in response to the Propargite RED DCI.
- ⁷⁷ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁷⁸ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁷⁹ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸⁰ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸¹ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸² **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸³ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸⁴ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸⁵ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸⁶ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁸⁷ **860.1500** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.

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- ⁸⁸ **860.1520** – The study cited is acceptable and satisfies the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED. Note: MRID 43802201 was not cited under citrus as it is a corn study. See 850.1520 – corn.
- ⁸⁹ **860.1520** – The study cited is acceptable and satisfies the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁹⁰ **860.1520** – The studies cited are acceptable as per the Propargite RED, the most recent Human Health Effects Risk Assessment. Cotton gin byproduct data, required in the RED, are also cited.
- ⁹¹ **860.1520** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁹² **860.1520** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁹³ **860.1520** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. It appears that no new data have been submitted since the RED.
- ⁹⁴ **860.1480** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. MRID Numbers 43197801 and 43261501 were also cited.
- ⁹⁵ **860.1900** – The studies cited are acceptable and satisfy the data requirement as per the Propargite RED, the most recent Human Health Effects Risk Assessment. MRID Numbers 43197801 and 43261501 were also cited.